



United States
Department of
Agriculture

Forest
Service

Southwestern Region
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Route To:

Subject: 2001 Insect and Disease Aerial Detection Surveys, Kaibab NF

To: Forest Supervisor, Kaibab National Forest

The annual forest insect and disease aerial detection survey was conducted over the Kaibab NF July 24-28, 2001, by Forest Health observers. Following is a summary of the results of this survey.

Approximately 55 acres of pine mortality caused by bark beetles was recorded this year.

North of Jacob Canyon on the North Kaibab, 471 acres of pinyon mortality, caused by pinyon ips, was detected.

Defoliation of aspen increased in acreage this season. Large contiguous tracts of defoliated and stressed aspen clones were noted across the North Kaibab plateau. Forest-wide, 11,525 acres sustained defoliation. A combination of large aspen tortrix and marssonina leaf blight contributed to these thinned canopies. Seasonal defoliation caused by these agents is rarely fatal to aspen unless it becomes chronic.

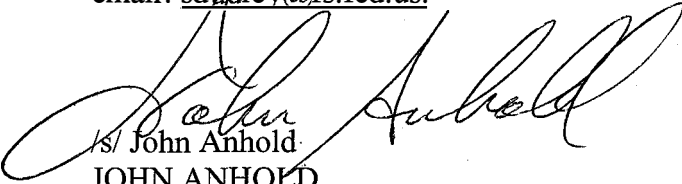
The entire spruce/fir type on the North Kaibab is exhibiting defoliation from the western spruce budworm. A total of 9,514 acres was detected, an increase from year 2000. This cyclic defoliator has rarely caused mortality on the North Kaibab.

Approximately 1,350 acres of fire-related mortality was detected. Residual trees in and around these burn areas are potential sites for future bark beetle activity. We will monitor these areas in future aerial surveys and supply data for analysis.

Upon availability, maps depicting conditions detected will be sent to appropriate Forest-level staff and Ranger District personnel. Electronic format copies of the spatial data are being forwarded to Forest GIS staff and are to be made available to Forest and District personnel for any projects to which they may be relevant. Please advise District personnel via this letter of this availability.



Should you have any questions regarding this survey, would like to request spatial data, or need additional information about forest insects and diseases, please feel free to contact Bobbe Fitzgibbon at (928) 556-2072, email: bfitzgibbon@fs.fed.us or Steve Dudley at (928) 556-2071, email: sdudley@fs.fed.us.

A handwritten signature in black ink, appearing to read "John Anhold", written over the printed name.

/s/ John Anhold
JOHN ANHOLD
Arizona Zone Leader
Forest Health

cc:

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